ABSTRACT OF THE DISCLOSURE

EFFICIENT PACKET DESEGMENTATION ON A NETWORK ADAPTER

5   A method, system, and program for efficient packet desegmentation on a network adapter

are provided. Multiple data packet segments received at a network adapter from a single

connection are buffered at the network adapter. The single connection is identified by addresses

and ports extracted from the header of each data packet segment. Responsive to detecting a

buffering release condition, the data packet segments are released from the network adapter as a

10   desegmented group to a network stack, such that the data packets segments received for the

single connection are efficiently passed to the network stack together. In particular, the single

connection is a TCP connection identified by a four-tuple of source and destination addresses and

ports extracted from each TCP header of each of said plurality of data packet segments.